

result in loss of user privileges and other penalties.

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 14:23:12 ON 20 NOV 2006

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:23:22 ON 20 NOV 2006

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STRUCTURE FILE UPDATES: 19 NOV 2006 HIGHEST RN 913611-00-4

DICTIONARY FILE UPDATES: 19 NOV 2006 HIGHEST RN 913611-00-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

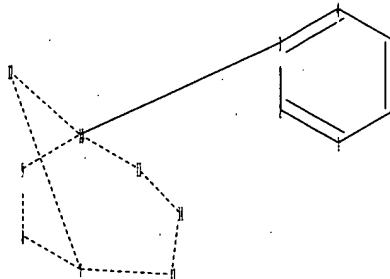
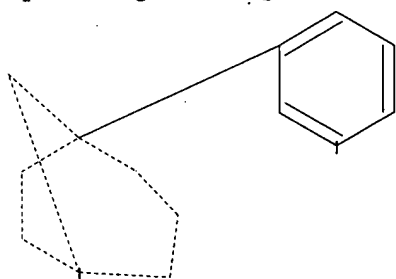
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10-500015z.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

3-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 7-13 8-9 9-10 10-11 10-12 11-14 13-14

exact/norm bonds :

7-8 7-12 7-13 8-9 9-10 10-11 10-12 11-14 13-14

exact bonds :

3-10

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

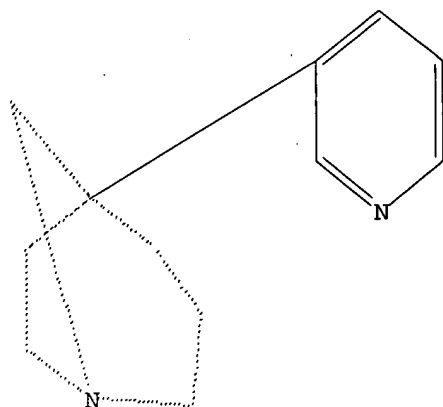
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L1 STRUCTURE UPLOADED

=&gt; d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=&gt; s l1 ful

FULL SEARCH INITIATED 14:23:59 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 93 TO ITERATE

100.0% PROCESSED 93 ITERATIONS

SEARCH TIME: 00.00.01

70 ANSWERS

L2 70 SEA SSS FUL L1

=&gt; fil caplus

COST IN U.S. DOLLARS

SINCE FILE  
ENTRYTOTAL  
SESSION

FULL ESTIMATED COST

166.94

167.15

FILE 'CAPLUS' ENTERED AT 14:24:04 ON 20 NOV 2006

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FILE COVERS 1907 - 20 Nov 2006 VOL 145 ISS 22  
FILE LAST UPDATED: 19 Nov 2006 (20061119/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s l2

L3 1 L2

=> d fbib abs

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:534333 CAPLUS

DN 139:101039

TI Derivatives of 5-(pyridin-3-yl)-1-azabicyclo[3.2.1]octane, their preparation, and their application in therapy as nicotinic receptor ligands for treatment of CNS disorders

IN Galli, Frederic; Leclerc, Odile; Lochead, Alistair

PA Sanofi-Synthelabo, Fr.

SO Fr. Demande, 20 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN CNT 1

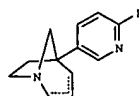
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FR 2834511	A1	20030711	FR 2002-109	20020107
FR 2834511	B1	20040213		
CA 2471628	AA	20030717	CA 2003-2471628	20030103
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			WO 2003-FR4	W 20030103
WO 2003057697	A1	20030717	WO 2003-FR4	20030103
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			FR 2002-109	A 20020107
AU 2003216777	A1	20030724	AU 2003-216777	20030103
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			WO 2003-FR4	W 20030103
EP 1465893	A1	20041013	EP 2003-712202	20030103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			FR 2002-109	A 20020107
BR 2003006707	A	20050209	BR 2003-6707	20030103
			FR 2002-109	A 20020107
CN 1612876	A	20050504	WO 2003-FR4	W 20030103
			CN 2003-801987	20030103
JP 2005514422	T2	20050519	FR 2002-109	A 20020107
			JP 2003-558012	20030103
US 2005020568	A1	20050127	WO 2003-FR4	W 20030103
			US 2004-500015	20040623
			FR 2002-109	A 20020107
NO 2004002846	A	20040921	WO 2003-FR4	W 20030103
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			WO 2003-FR4	A 20030103

OS MARPAT 139:101039

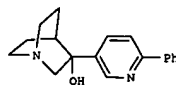
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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

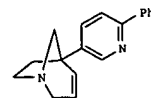
(Continued)



I



II



III

AB Title compds. I and their acid addition salts are disclosed [wherein: R = halo, a Ph group (substituted by one or more groups chosen from halo,

C1-6 alkyl or alkoxy, NO<sub>2</sub>, amino, CF<sub>3</sub>, cyano, OH, acetyl, or methylenedioxy), pyridinyl, thienyl, indolyl, or pyrimidinyl (possibly substituted by one or more C1-6 alkoxy); dashed bonds = one single bond and another single

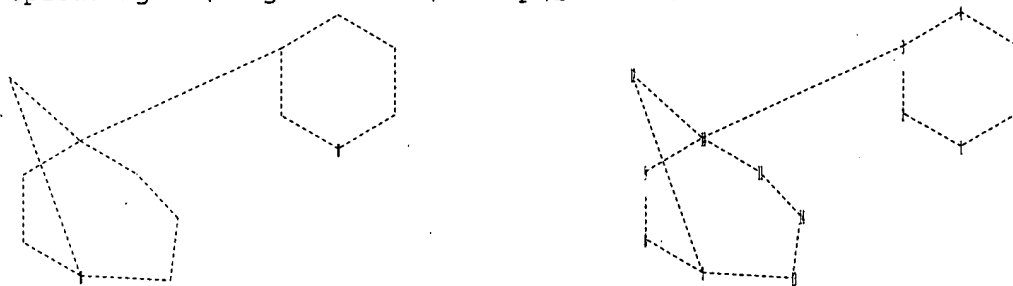
or double bond]. The compds. are useful as pharmaceuticals, particularly as CNS agents, and specifically as ligands of nicotinic receptors. The compds. were tested against nicotinic receptors with the α4β2 subunit, or with the α7 subunit. Four synthetic examples and a list of 35 specific compds. (as either di- or tri-HBr or 1:1 oxalate salts)

are given. For instance, 2,5-dibromopyridine was arylated in the 2-position by PhB(OH)<sub>2</sub> using Pd(PPh<sub>3</sub>)<sub>4</sub> catalyst, and the resultant 5-bromo-2-phenylpyridine was lithiated with BuLi and treated with 1-azabicyclo[2.2.2]octan-3-one to give the bicyclic alc. II. Dehydration and rearrangement of II by heating with MeSO<sub>3</sub>H at 180° gave invention compound III, isolated as the di-HBr salt. In tests for specific binding to isolated rat cerebral nicotinic receptors having either α4β2 or α7 subunits, compds. I had IC<sub>50</sub> values in the ranges of 0.01-10 μM and 0.005-20 μM, resp. Some compds. showed selectivity for the α7 receptor subtype.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt;

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ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

3-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 7-13 8-9 9-10 10-11 10-12 11-14  
13-14

exact/norm bonds :

1-2 1-6 2-3 3-4 3-10 4-5 5-6 7-8 7-12 7-13 8-9 9-10 10-11 10-12 11-14  
13-14

Match level :

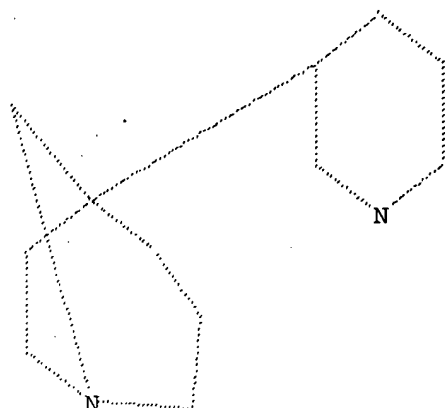
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11:Atom 12:Atom 13:Atom 14:Atom

L4 STRUCTURE UPLOADED

=&gt; d

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4 ful

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:25:34 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 403 TO ITERATE

100.0% PROCESSED 403 ITERATIONS  
SEARCH TIME: 00.00.01

70 ANSWERS

L5 70 SEA SSS FUL L4

L6 1 L5

=>

=> d bib

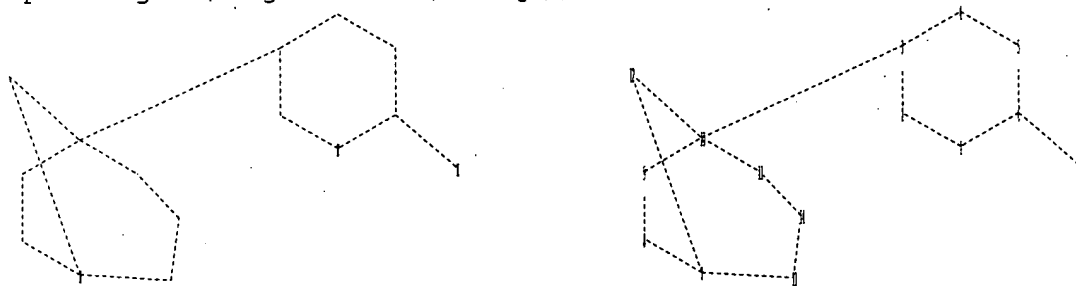
L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:534333 CAPLUS  
 DN 139:101039  
 TI Derivatives of 5-(pyridin-3-yl)-1-azabicyclo[3.2.1]octane, their  
 preparation, and their application in therapy as nicotinic receptor  
 ligands for treatment of CNS disorders  
 IN Galli, Frederic; Leclerc, Odile; Lochead, Alistair  
 PA Sanofi-Synthelabo, Fr.  
 SO Fr. Demande, 20 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2834511	A1	20030711	FR 2002-109	20020107
FR 2834511	B1	20040213		
CA 2471628	AA	20030717	CA 2003-2471628	20030103
WO 2003057697	A1	20030717	WO 2003-FR4	20030103
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003216777	A1	20030724	AU 2003-216777	20030103
EP 1465893	A1	20041013	EP 2003-712202	20030103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003006707	A	20050209	BR 2003-6707	20030103
CN 1612876	A	20050504	CN 2003-801987	20030103
JP 2003514422	T2	20050519	JP 2003-558012	20030103
US 2005020568	A1	20050127	US 2004-500015	20040623
NO 2004002846	A	20040921	NO 2004-2846	20040705
PRA1 FR 2002-109	A	20020107		
WO 2003-FR4	W	20030103		

OS MARPAT 139:101039  
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt;

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chain nodes :

15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

3-10 6-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 7-13 8-9 9-10 10-11 10-12 11-14  
13-14

exact/norm bonds :

1-2 1-6 2-3 3-4 3-10 4-5 5-6 6-15 7-8 7-12 7-13 8-9 9-10 10-11 10-12  
11-14 13-14

Match level :

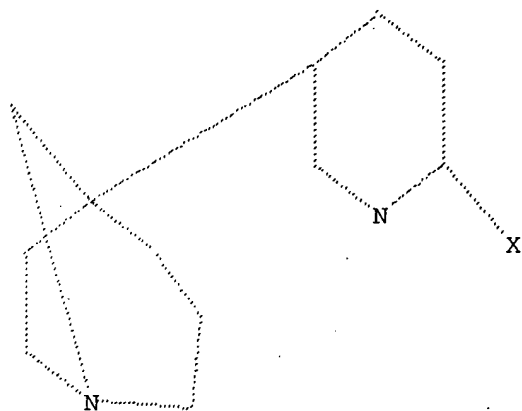
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11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS

L7 STRUCTURE UPLOADED

=&gt; d

L7 HAS NO ANSWERS

L7 STR





Structure attributes must be viewed using STN Express query preparation.

=> s l7 ful

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:45:16 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L8 4 SEA SSS FUL L7

L9 1 L8

=> d bib

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:534333 CAPLUS  
 DN 139:101039  
 TI Derivatives of 5-(pyridin-3-yl)-1-azabicyclo[3.2.1]octane, their  
 preparation, and their application in therapy as nicotinic receptor  
 ligands for treatment of CNS disorders  
 IN Galli, Frederic; Leclerc, Odile; Lochead, Alistair  
 PA Sanofi-Synthelabo, Fr.  
 SO Fr. Demande, 20 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2834511	A1	20030711	FR 2002-109	20020107
FR 2834511	B1	20040213		
CA 2471628	AA	20030717	CA 2003-2471628	20030103
WO 2003057697	A1	20030717	WO 2003-FR4	20030103
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FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EP 1465893	A1	20041013	EP 2003-712202	20030103
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JP 2005514422	T2	20050519	JP 2003-558012	20030103
US 2005020568	A1	20050127	US 2004-500015	20040623
NO 2004002846	A	20040921	NO 2004-2846	20040705
PRAI FR 2002-109	A	20020107		
WO 2003-FR4	W	20030103		

OS MARPAT 139:101039  
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT